Prediction of MPE limit at a given distance

MW-CBDA-SMR-10W80-PS8, Uplink Outdoor Donar Antenna

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	17.33	(dBm)
Maximum peak output power at antenna input terminal:	54.07543229	(mW)
Antenna gain(typical):	0.5	(dBi)
Maximum antenna gain:	1.122018454	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	915	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.61	(mW/cm^2)
Power density at prediction frequency:	0.012071	(mW/cm^2)
Maximum allowable antenna gain:	17.5359969	(dBi)
Margin of Compliance:	17.0359969	